We claim:

5

- 1. A roll, comprising a polyurethane elastomer formed from a polyurethane mixture, wherein the polyurethane mixture comprises polydiene, tri-functional polyol curative, an additional graft polymer curative having a molecular weight of at least about 800 and comprising diol, polyol, diamine, polyamine or a combination thereof, conductive modifier, hydrolytic stabilizer, and, optionally, antioxidant.
- 2. The roll according to claim 1, wherein the polyurethane mixture further comprises a urethane prepolymer.
 - 3. The roll according to claim 2, wherein the roll is a developer roll.
- 4. The roll according to claim 2, wherein the polydiene is polydiene diol or polydiene prepolymer.
- 5. The roll according to claim 2, wherein the urethane prepolymer comprises polycaprolactone ester toluene diisocyanate prepolymer.
- 6. The roll according to claim 4, wherein the polydiene diol comprises polybutadiene diol.
- 7. The roll according to claim 2, wherein the additional graft polymer curative comprises a diol.
- 8. The roll according to claim 7, wherein the diol comprises at least one acrylate, silicone, polyether or polyester side chain.
- 9. The roll according to claim 2, wherein the conductive modifier is selected from the group consisting of ferric chloride, ferrous chloride, calcium chloride, cobalt hexafluoroacetylacetonate and combinations thereof.
- 10. The roll according to claim 2, wherein the conductive modifier comprises ferric chloride.
- 11. The roll according to claim 2, wherein the hydrolytic stabilizer comprises triisopropanolamine.

5

5

- 12. The roll according to claim 2, exhibiting a Shore A hardness of less than about 50 according to ASTM D2240-86 and a compression set of less than about 8% according to ASTM D395-89, method B, at a temperature of about 70°C for about 22 hours.
 - 13. An image forming device comprising a roll as recited in claim 1.
- 14. The image forming device according to claim 13, wherein the image forming device comprises an electrophotographic printer.
- 15. A developer roll for an image forming device, comprising a polyurethane elastomer formed from a polyurethane mixture, wherein the polyurethane mixture comprises polycaprolactone urethane prepolymer, polybutadiene diol, tri-functional polyol curative, a grafted diol curative having a silicone side chain, conductive modifier comprising ferric chloride, hydrolytic stabilizer comprising triisopropanolamine, and antioxidant comprising 2,6-di-tertiarybutyl-4-methyl-phenol, wherein the developer roll exhibits a Shore A hardness of less than about 50 according to ASTM D2240-86 and a compression set of less than about 5% according to ASTM D395-89, method B, at a temperature of about 70°C for about 22 hours.
 - 16. A method of manufacturing a roll, comprising:
- a) casting a polyurethane mixture into a mold, the polyurethane mixture comprising polydiene, tri-functional polyol curative, an additional graft polymer curative having a molecular weight of at least about 800 and comprising diol, polyol, diamine, polyamine or a combination thereof, conductive modifier, hydrolytic stabilizer, and, optionally, antioxidant.
 - b) curing the polyurethane mixture to allow demolding of a resulting roll;
 - c) demolding the roll and, optionally, post-curing the demolded roll;
 - d) grinding the roll to desired dimensions; and
- baking the roll under conditions sufficient to oxidize an outer layer of the roll.

- 17. The method according to claim 16, wherein the polyurethane mixture further comprises a urethane prepolymer.
- 18. The method according to claim 17, wherein the urethane prepolymer comprises polycaprolactone ester toluene diisocyanate prepolymer.
- 19. The method according to claim 17, wherein the polydiene is polydiene diol or polydiene prepolymer.
- 20. The method according to claim 19, wherein the polydiene diol comprises polybutadiene diol.
- 21. The method according to claim 17, wherein the additional graft polymer curative comprises a diol.
- 22. The method according to claim 21, wherein the diol comprises at least one acrylate, silicone, polyether or polyester side chain.
- 23. The method according to claim 17, wherein the conductive modifier is selected from the group consisting of ferric chloride, ferrous chloride, calcium chloride, cobalt hexafluoroacetylacetonate and combinations thereof.
- 24. The method according to claim 23, wherein the conductive modifier comprises ferric chloride.
- 25. The method according to claim 17, wherein the hydrolytic stabilizer comprises triisopropanolamine.
- 26. The method according to claim 17, wherein the antioxidant comprises 2,6-di-tertiarybutyl-4-methyl-phenol.
- 27. The method according to claim 17, wherein the roll has a hardness of less than about 50 Shore A according to ASTM D2240-86 and a compression set of less than or about 8% according to ASTM D395-89, method B, at a temperature of about 70°C for about 22 hours.
- 28. The method according to claim 17, wherein the outer layer has a resistivity from about 5.0×10^9 ohm-cm to about 2.0×10^{12} ohm-cm.

5

10

- 29. A method of manufacturing a roll, comprising:
- a) casting a polyurethane mixture into a mold, the polyurethane mixture comprising polycaprolactone urethane prepolymer, polybutadiene diol, tri-functional polyol curative, a grafted diol curative having a silicone side chain, conductive modifier comprising ferric chloride, hydrolytic stabilizer comprising triisopropanolamine, and antioxidant comprising 2,6-di-tertiarybutyl-4-methyl-phenol, wherein the developer roll exhibits a Shore A hardness of less than about 50 according to ASTM D2240-86 and a compression set of less than about 5% according to ASTM D395-89, method B, at a temperature of about 70°C for about 22 hours.
 - b) curing the polyurethane mixture to allow demolding of a resulting roll;
 - c) demolding the roll and, optionally, post-curing the demolded roll;
 - d) grinding the roll to desired dimensions; and
- e) baking the roll under conditions sufficient to oxidize an outer layer of the roll, wherein the outer layer has a resistivity from about 5.0 x 10⁹ ohm-cm to about 2.0 x 10¹² ohm-cm.